Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-88766-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	03/25/2013
Reviewer:	Jane Lindsey	Date:	04/10/2013
Concurrence[1]:	Carol Lovett, Sarah Choyke	Date:	04/19/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 032613-RB-Shovel (680-88766-23).	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
no, note in DV report.				occurs once per week per the client. A rinsate blank (032613-RB-Shovel) was collected during the week of 03/25/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88766-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)		✓			
14. Is a field duplicate associated with this Job?	✓			• CV0613A-CS (680-88766-1) and CV0613A-CSD (680-88766-2) • CV0613K-CS (680-88766-12) and CV0613K-CSD (680-88766-13)	
15. Was precision deemed acceptable as defined by the project plans?		✓		See **Attachment B** (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Initial Calibration: 04/02/2013, instrument BSMC5973 • ICV: 04/02/2013 @ 15:34 • CCV: 04/02/2013 @ 16:40 • CCV: 04/03/2013 @ 11:45 • Initial Calibration: 02/22/2013, instrument BSMD5973 • ICV: 02/22/2013 @ 14:51 • CCV: 04/03/2013 @ 11:55	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects		✓		ICV of 04/02/2013 @ 15:34, instrument BSMC5973: • Pyrene @ -21.4%D (Lab: ≤35, Project: ≤20), 78.5%R • Chrysene @ -23.5%D (Lab: ≤35, Project: ≤20), 76.5%R • Benzo(b)fluoranthene @ -21.1%D (Lab: ≤35, Project: ≤20), 79%R • Benzo(a)pyrene @ -24.3%D (Lab: ≤35, Project:	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds				≤20), 75.5%R A negative bias is indicated by the ICV percent difference; therefore, J-flag detected pyrene, chrysene benzo(b)fluoranthene, and benzo(a)pyrene results in associated samples[2].	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			• Prep Batch 135924: 680-88632-21 (Batch sample), MS/MSD • Prep Batch 136026: 680-88766-6 (CV0613E-CS), MS/MSD • Prep Batch 136063: 680-88766-21 (Batch sample), MS/MSD	
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results		✓		CV0613E-CS (680-88766-6): • Benzo(a)anthracene @ 37 and 18%R (40-130). Flag result with J. • Benzo(a)pyrene @ 35 and 21%R (49-130). Flag result with J. • Benzo(b)fluoranthene @ 20 and -18%R (37-130). Flag result with J. • Chrysene @ 25 and 7%R (41-130). Flag result with J. • Fluoranthene @ 7 and -33%R (40-130). Flag result with J. • Phenanthrene @ 30 and 5%R (42-130). Flag result with J. • Pyrene @ 23 and -17%R (44-130). Flag result with J.	J

[2] 680-88766-1 through -5 and -7 through -20

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R	The sample results are unusable. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ	The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88766-1
SDG: 68088766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88766-1	CV0613A-CS	Solid	03/25/13 13:11	03/28/13 09:37
680-88766-2	CV0613A-CSD	Solid	03/25/13 13:15	03/28/13 09:37
680-88766-3	CV0613B-CS	Solid	03/25/13 13:20	03/28/13 09:37
680-88766-4	CV0613C-CS	Solid	03/25/13 13:25	03/28/13 09:37
680-88766-5	CV0613D-CS	Solid	03/25/13 13:30	03/28/13 09:37
680-88766-6	CV0613E-CS	Solid	03/25/13 13:43	03/28/13 09:37
680-88766-7	CV0613F-CS	Solid	03/25/13 13:48	03/28/13 09:37
680-88766-8	CV0613G-CS	Solid	03/25/13 14:00	03/28/13 09:37
680-88766-9	CV0613H-CS	Solid	03/25/13 14:07	03/28/13 09:37
680-88766-10	CV0613I-CS	Solid	03/25/13 14:17	03/28/13 09:37
680-88766-11	CV0613J-CS	Solid	03/25/13 14:25	03/28/13 09:37
680-88766-12	CV0613K-CS	Solid	03/25/13 14:26	03/28/13 09:37
680-88766-13	CV0613K-CSD	Solid	03/25/13 14:28	03/28/13 09:37
680-88766-14	CV0613AB-GS	Solid	03/25/13 13:32	03/28/13 09:37
680-88766-15	CV0613AC-GS	Solid	03/25/13 13:34	03/28/13 09:37
680-88766-16	CV0610A-CS	Solid	03/25/13 14:40	03/28/13 09:37
680-88766-17	CV0610B-CS	Solid	03/25/13 14:42	03/28/13 09:37
680-88766-18	CV0610AB-GS	Solid	03/25/13 14:39	03/28/13 09:37
680-88766-19	CV0506A-CS	Solid	03/25/13 15:06	03/28/13 09:37
680-88766-20	CV0506B-CS	Solid	03/25/13 15:15	03/28/13 09:37

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV0613A-CS (680-88766-1	RL	CV0613A-CSD (680-88766-2)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene		470	34	120	µg/kg	1475	NA	34	590	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	150	190	75	47	µg/kg	592.5	NA	75	237	None, absolute difference ≤ 2x Avg RL
Anthracene	300	40	150	9.9	µg/kg	124.75	**67**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)anthracene	1100	38	530	9.5	µg/kg	118.75	**70**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)pyrene	950	49	490	12	µg/kg	152.5	**64**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(b)fluoranthene	1800	58	850	14	µg/kg	180	**72**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(g,h,i)perylene	790	94	360	24	µg/kg	295	**75**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(k)fluoranthene	570	38	370	9.5	µg/kg	118.75	**43**	NA	NA	None, RPD ≤ 50%
Chrysene	1000	42	520	11	µg/kg	132.5	**63**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	280	94	130	24	µg/kg	295	NA	**150**	**118**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluoranthene	1600	94	860	24	µg/kg	295	**60**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluorene	70	94	38	24	µg/kg	295	NA	32	118	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	660	94	350	24	µg/kg	295	**61**	NA	NA	**J/UJ-flag, RPD > 50%**
1-Methylnaphthalene	190	190	65	47	µg/kg	592.5	NA	125	237	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	190	190	96	47	µg/kg	592.5	NA	94	237	None, absolute difference ≤ 2x Avg RL
Naphthalene	180	190	88	47	µg/kg	592.5	NA	92	237	None, absolute difference ≤ 2x Avg RL
Phenanthrene	780	38	400	9.5	µg/kg	118.75	**64**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	1400	94	810	24	µg/kg	295	**53**	NA	NA	**J/UJ-flag, RPD > 50%**

Note: If the analyte was not detected, then the cell was left blank.

Analyte	CV0613K-CS (680-88766-12)	RL	CV0613K-CSD (680-88766-13)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	50	120	24	120	µg/kg	600	NA	26	240	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	100	48	67	47	µg/kg	237.5	NA	33	95	None, absolute difference ≤ 2x Avg RL
Anthracene	170	10	99	9.8	µg/kg	49.5	**53**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)anthracene	450	9.5	290	9.3	µg/kg	47	**43**	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	460	12	320	12	µg/kg	60	**36**	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	850	15	560	14	µg/kg	72.5	**41**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	390	24	240	23	µg/kg	117.5	**48**	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	380	9.5	230	9.3	µg/kg	47	**49**	NA	NA	None, RPD ≤ 50%
Chrysene	540	11	340	11	µg/kg	55	**45**	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	130	24	74	23	µg/kg	117.5	NA	**56**	**47**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluoranthene	750	24	480	23	µg/kg	117.5	**44**	NA	NA	None, RPD ≤ 50%
Fluorene	47	24	24	23	µg/kg	117.5	NA	23	47	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	360	24	240	23	µg/kg	117.5	**40**	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	76	48	43	47	µg/kg	237.5	NA	33	95	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	96	48	46	47	µg/kg	237.5	NA	50	95	None, absolute difference ≤ 2x Avg RL
Naphthalene	120	48	54	47	µg/kg	237.5	NA	66	95	None, absolute difference ≤ 2x Avg RL
Phenanthrene	540	9.5	220	9.3	µg/kg	47	**84**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	730	24	440	23	µg/kg	117.5	**50**	NA	NA	None, RPD ≤ 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-88766-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88766-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/28/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0613A-CS (680-88766-1), CV0613A-CSD (680-88766-2), CV0613B-CS (680-88766-3), CV0613C-CS (680-88766-4), CV0613D-CS (680-88766-5), CV0613E-CS (680-88766-6), CV0613F-CS (680-88766-7), CV0613G-CS (680-88766-8), CV0613H-CS (680-88766-9), CV0613I-CS (680-88766-10), CV0613J-CS (680-88766-11), CV0613K-CS (680-88766-12), CV0613K-CSD (680-88766-13), CV0613AB-GS (680-88766-14), CV0613AC-GS (680-88766-15), CV0610A-CS (680-88766-16), CV0610B-CS (680-88766-17), CV0610AB-GS (680-88766-18), CV0506A-CS (680-88766-19) and CV0506B-CS (680-88766-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/29/2013, 04/01/2013 and 04/02/2013 and analyzed on 04/02/2013 and 04/03/2013.

Samples CV0613A-CS (680-88766-1)[4X], CV0613B-CS (680-88766-3)[4X], CV0613D-CS (680-88766-5)[4X], CV0613E-CS (680-88766-6)[4X], CV0613H-CS (680-88766-9)[4X], CV0613J-CS (680-88766-11)[4X], CV0613AC-GS (680-88766-15)[4X], CV0610A-CS (680-88766-16)[4X], CV0610B-CS (680-88766-17)[4X], CV0610AB-GS (680-88766-18)[4X] and CV0506A-CS (680-88766-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample CV0613E-CS (680-88766-6) in batch 660-136118.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88766-1
SDG: 68088766-1

Client Sample ID: CV0613A-CS
Date Collected: 03/25/13 13:11
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-1
Matrix: Solid
Percent Solids: 85.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Acenaphthylene	150	J	190	24	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Anthracene	300	J	40	20	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Benzo[a]anthracene	1100	J	38	18	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Benzo[a]pyrene	950	J	49	25	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Benzo[b]fluoranthene	1800	J	58	29	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Benzo[g,h,i]perylene	790	J	94	21	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Benzo[k]fluoranthene	570		38	17	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Chrysene	1000	J	42	21	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Dibenz(a,h)anthracene	280	J	94	19	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Fluoranthene	1600	J	94	19	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Fluorene	70	J	94	19	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Indeno[1,2,3-cd]pyrene	660	J	94	33	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
1-Methylnaphthalene	190		190	21	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
2-Methylnaphthalene	190		190	33	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Naphthalene	180	J	190	21	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Phenanthrene	780	J	38	18	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4
Pyrene	1400	J	94	17	ug/Kg	☼	03/29/13 10:19	04/02/13 21:51	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*30 - 130*	*03/29/13 10:19*	*04/02/13 21:51*	*4*

Client Sample ID: CV0613A-CSD
Date Collected: 03/25/13 13:15
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-2
Matrix: Solid
Percent Solids: 84.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	J	120	24	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Acenaphthylene	75		47	5.9	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Anthracene	150	J	9.9	5.0	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Benzo[a]anthracene	530	J	9.5	4.6	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Benzo[a]pyrene	490	J	12	6.2	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Benzo[b]fluoranthene	850	J	14	7.2	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Benzo[g,h,i]perylene	360	J	24	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Benzo[k]fluoranthene	370		9.5	4.3	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Chrysene	520	J	11	5.3	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Dibenz(a,h)anthracene	130	J	24	4.9	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Fluoranthene	860	J	24	4.7	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Fluorene	38		24	4.9	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Indeno[1,2,3-cd]pyrene	350	J	24	8.4	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
1-Methylnaphthalene	65		47	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
2-Methylnaphthalene	96		47	8.4	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Naphthalene	88		47	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Phenanthrene	400	J	9.5	4.6	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1
Pyrene	810	J	24	4.4	ug/Kg	☼	03/29/13 10:19	04/02/13 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*03/29/13 10:19*	*04/02/13 22:09*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88766-1
SDG: 68088766-1

Client Sample ID: CV0613B-CS
Date Collected: 03/25/13 13:20
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-3
Matrix: Solid
Percent Solids: 84.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	400	J	470	95	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Acenaphthylene	100	J	190	24	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Anthracene	970	J	40	20	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Benzo[a]anthracene	2600		38	19	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Benzo[a]pyrene	2300	J	49	25	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Benzo[b]fluoranthene	3800	J	58	29	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Benzo[g,h,i]perylene	1800		95	21	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Benzo[k]fluoranthene	1500		38	17	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Chrysene	2400	J	43	21	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Dibenz(a,h)anthracene	520		95	19	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Fluoranthene	4700		95	19	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Fluorene	330		95	19	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Indeno[1,2,3-cd]pyrene	1600		95	34	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
1-Methylnaphthalene	160	J	190	21	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
2-Methylnaphthalene	210		190	34	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Naphthalene	290		190	21	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Phenanthrene	3000		38	19	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4
Pyrene	4100	J	95	18	ug/Kg	☼	03/29/13 10:19	04/02/13 22:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*30 - 130*	*03/29/13 10:19*	*04/02/13 22:27*	*4*

Client Sample ID: CV0613C-CS
Date Collected: 03/25/13 13:25
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-4
Matrix: Solid
Percent Solids: 71.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	31	J	140	28	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Acenaphthylene	21	J	56	7.0	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Anthracene	68	J	12	5.9	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Benzo[a]anthracene	230		11	5.5	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Benzo[a]pyrene	190	J	15	7.3	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Benzo[b]fluoranthene	380	J	17	8.6	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Benzo[g,h,i]perylene	180		28	6.2	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Benzo[k]fluoranthene	130		11	5.1	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Chrysene	230	J	13	6.3	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Dibenz(a,h)anthracene	57		28	5.8	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Fluoranthene	420		28	5.6	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Fluorene	31		28	5.8	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Indeno[1,2,3-cd]pyrene	130		28	10	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
1-Methylnaphthalene	63		56	6.2	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
2-Methylnaphthalene	94		56	10	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Naphthalene	92		56	6.2	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Phenanthrene	260		11	5.5	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1
Pyrene	340	J	28	5.2	ug/Kg	☼	03/29/13 10:19	04/02/13 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*03/29/13 10:19*	*04/02/13 22:46*	*1*

* Flagging error, Sarah Choyke 04/07/2013.

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88766-1
SDG: 68088766-1

Client Sample ID: CV0613D-CS
Date Collected: 03/25/13 13:30
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-5
Matrix: Solid
Percent Solids: 82.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	97	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Acenaphthylene	48	J	190	24	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Anthracene	120	J *	41	20	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Benzo[a]anthracene	390		39	19	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Benzo[a]pyrene	310	J	51	25	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Benzo[b]fluoranthene	720	J	59	30	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Benzo[g,h,i]perylene	260		97	21	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Benzo[k]fluoranthene	230		39	17	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Chrysene	470	J	44	22	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Dibenz(a,h)anthracene	96	J	97	20	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Fluoranthene	550		97	19	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Fluorene	41	J	97	20	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Indeno[1,2,3-cd]pyrene	270		97	34	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
1-Methylnaphthalene	64	J	190	21	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
2-Methylnaphthalene	93	J	190	34	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Naphthalene	82	J	190	21	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Phenanthrene	310		39	19	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4
Pyrene	530	J	97	18	ug/Kg	☼	03/29/13 10:19	04/02/13 23:04	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*30 - 130*	*03/29/13 10:19*	*04/02/13 23:04*	*4*

Client Sample ID: CV0613E-CS
Date Collected: 03/25/13 13:43
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-6
Matrix: Solid
Percent Solids: 84.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	95	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Acenaphthylene	110	J	190	24	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Anthracene	290		40	20	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Benzo[a]anthracene	910	F J	38	18	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Benzo[a]pyrene	830	F J	49	25	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Benzo[b]fluoranthene	1500	F J	58	29	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Benzo[g,h,i]perylene	760		95	21	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Benzo[k]fluoranthene	530		38	17	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Chrysene	1000	F J	43	21	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Dibenz(a,h)anthracene	210		95	19	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Fluoranthene	1500	F J	95	19	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Fluorene	77	J	95	19	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Indeno[1,2,3-cd]pyrene	670		95	34	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
1-Methylnaphthalene	110	J	190	21	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
2-Methylnaphthalene	150	J	190	34	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Naphthalene	150	J	190	21	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Phenanthrene	830	F J	38	18	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4
Pyrene	1300	F J	95	18	ug/Kg	☼	04/01/13 13:16	04/03/13 13:30	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*04/01/13 13:16*	*04/03/13 13:30*	*4*

* Flagging error, Sarah Choyke 04/07/2013.

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88766-1
SDG: 68088766-1

Client Sample ID: CV0613F-CS

Date Collected: 03/25/13 13:48
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-7
Matrix: Solid
Percent Solids: 68.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Acenaphthylene	**37**	J	57	7.1	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Anthracene	**68**	J *	12	6.0	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Benzo[a]anthracene	**210**		11	5.5	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Benzo[a]pyrene	**150**	J	15	7.4	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Benzo[b]fluoranthene	**300**	J	17	8.7	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Benzo[g,h,i]perylene	**120**		28	6.2	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Benzo[k]fluoranthene	**110**		11	5.1	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Chrysene	**220**	J	13	6.4	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Dibenz(a,h)anthracene	**43**		28	5.8	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Fluoranthene	**350**		28	5.7	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Fluorene	**15**	J	28	5.8	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Indeno[1,2,3-cd]pyrene	**120**		28	10	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
1-Methylnaphthalene	**63**		57	6.2	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
2-Methylnaphthalene	**72**		57	10	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Naphthalene	**54**	J	57	6.2	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Phenanthrene	**230**		11	5.5	ug/Kg		03/29/13 10:19	04/02/13 23:22	1
Pyrene	**310**	J	28	5.2	ug/Kg		03/29/13 10:19	04/02/13 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*03/29/13 10:19*	*04/02/13 23:22*	*1*

Client Sample ID: CV0613G-CS

Date Collected: 03/25/13 14:00
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-8
Matrix: Solid
Percent Solids: 73.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Acenaphthylene	**67**		54	6.8	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Anthracene	**120**	J *	11	5.7	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Benzo[a]anthracene	**310**		11	5.3	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Benzo[a]pyrene	**280**	J	14	7.0	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Benzo[b]fluoranthene	**570**	J	17	8.3	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Benzo[g,h,i]perylene	**220**		27	6.0	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Benzo[k]fluoranthene	**230**		11	4.9	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Chrysene	**350**	J	12	6.1	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Dibenz(a,h)anthracene	**79**		27	5.6	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Fluoranthene	**410**		27	5.4	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Fluorene	**19**	J	27	5.6	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Indeno[1,2,3-cd]pyrene	**200**		27	9.6	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
1-Methylnaphthalene	**64**		54	6.0	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
2-Methylnaphthalene	**84**		54	9.6	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Naphthalene	**88**		54	6.0	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Phenanthrene	**220**		11	5.3	ug/Kg		03/29/13 10:19	04/02/13 23:41	1
Pyrene	**410**	J	27	5.0	ug/Kg		03/29/13 10:19	04/02/13 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*03/29/13 10:19*	*04/02/13 23:41*	*1*

* Flagging error, Sarah Choyke 04/07/2013.

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88766-1
SDG: 68088766-1

Client Sample ID: CV0613H-CS
Date Collected: 03/25/13 14:07
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-9
Matrix: Solid
Percent Solids: 84.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Acenaphthylene	**130**	**J**	190	24	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Anthracene	**250**	**J** *	40	20	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Benzo[a]anthracene	**730**		39	19	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Benzo[a]pyrene	**660**	**J**	50	25	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Benzo[b]fluoranthene	**1300**	**J**	59	29	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Benzo[g,h,i]perylene	**540**		96	21	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Benzo[k]fluoranthene	**450**		39	17	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Chrysene	**840**	**J**	43	22	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Dibenz(a,h)anthracene	**150**		96	20	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Fluoranthene	**1400**		96	19	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Fluorene	**75**	**J**	96	20	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Indeno[1,2,3-cd]pyrene	**520**		96	34	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
1-Methylnaphthalene	**94**	**J**	190	21	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
2-Methylnaphthalene	**140**	**J**	190	34	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Naphthalene	**160**	**J**	190	21	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Phenanthrene	**680**		39	19	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4
Pyrene	**1100**	**J**	96	18	ug/Kg	☼	03/29/13 10:19	04/02/13 23:59	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*03/29/13 10:19*	*04/02/13 23:59*	*4*

Client Sample ID: CV0613I-CS
Date Collected: 03/25/13 14:17
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-10
Matrix: Solid
Percent Solids: 76.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Acenaphthylene	**71**		52	6.6	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Anthracene	**120**	**J** *	11	5.5	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Benzo[a]anthracene	**340**		10	5.1	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Benzo[a]pyrene	**320**	**J**	14	6.8	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Benzo[b]fluoranthene	**670**	**J**	16	8.0	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Benzo[g,h,i]perylene	**260**		26	5.8	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Benzo[k]fluoranthene	**250**		10	4.7	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Chrysene	**340**	**J**	12	5.9	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Dibenz(a,h)anthracene	**87**		26	5.4	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Fluoranthene	**420**		26	5.2	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Fluorene	**22**	**J**	26	5.4	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Indeno[1,2,3-cd]pyrene	**270**		26	9.3	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
1-Methylnaphthalene	**59**		52	5.8	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
2-Methylnaphthalene	**76**		52	9.3	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Naphthalene	**87**		52	5.8	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Phenanthrene	**220**		10	5.1	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1
Pyrene	**410**	**J**	26	4.9	ug/Kg	☼	03/29/13 10:19	04/03/13 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*03/29/13 10:19*	*04/03/13 00:17*	*1*

* Flagging error, Sarah Choyke 04/07/2013.

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88766-1
SDG: 68088766-1

Client Sample ID: CV0613J-CS
Date Collected: 03/25/13 14:25
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-11
Matrix: Solid
Percent Solids: 81.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Acenaphthylene	92	J	200	25	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Anthracene	160	J *	41	21	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Benzo[a]anthracene	740		39	19	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Benzo[a]pyrene	640	J	51	26	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Benzo[b]fluoranthene	1400	J	60	30	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Benzo[g,h,i]perylene	570		99	22	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Benzo[k]fluoranthene	540		39	18	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Chrysene	890	J	44	22	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Dibenz(a,h)anthracene	190		99	20	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Fluoranthene	1300		99	20	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Fluorene	27	J	99	20	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Indeno[1,2,3-cd]pyrene	380		99	35	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
1-Methylnaphthalene	80	J	200	22	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
2-Methylnaphthalene	89	J	200	35	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Naphthalene	110	J	200	22	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Phenanthrene	500		39	19	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4
Pyrene	1100	J	99	18	ug/Kg	☼	03/29/13 10:19	04/03/13 12:59	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*03/29/13 10:19*	*04/03/13 12:59*	*4*

Client Sample ID: CV0613K-CS
Date Collected: 03/25/13 14:26
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-12
Matrix: Solid
Percent Solids: 84.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	50	J	120	24	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Acenaphthylene	100		48	6.0	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Anthracene	170	J *	10	5.0	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Benzo[a]anthracene	450		9.5	4.6	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Benzo[a]pyrene	460	J	12	6.2	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Benzo[b]fluoranthene	850	J	15	7.3	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Benzo[g,h,i]perylene	390		24	5.2	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Benzo[k]fluoranthene	380		9.5	4.3	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Chrysene	540	J	11	5.4	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Dibenz(a,h)anthracene	130	J	24	4.9	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Fluoranthene	750		24	4.8	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Fluorene	47		24	4.9	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Indeno[1,2,3-cd]pyrene	360		24	8.5	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
1-Methylnaphthalene	76		48	5.2	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
2-Methylnaphthalene	96		48	8.5	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Naphthalene	120		48	5.2	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Phenanthrene	540	J	9.5	4.6	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1
Pyrene	730	J	24	4.4	ug/Kg	☼	03/29/13 10:19	04/03/13 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*03/29/13 10:19*	*04/03/13 13:17*	*1*

* Flagging error, Sarah Choyke 04/07/2013.

Client Sample ID: CV0613K-CSD
Date Collected: 03/25/13 14:28
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-13
Matrix: Solid
Percent Solids: 87.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	24	J	120	23	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Acenaphthylene	67		47	5.8	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Anthracene	99	J*	9.8	4.9	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Benzo[a]anthracene	290		9.3	4.6	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Benzo[a]pyrene	320	J	12	6.1	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Benzo[b]fluoranthene	560	J	14	7.1	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Benzo[g,h,i]perylene	240		23	5.1	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Benzo[k]fluoranthene	230		9.3	4.2	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Chrysene	340	J	11	5.3	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Dibenz(a,h)anthracene	74	J	23	4.8	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Fluoranthene	480		23	4.7	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Fluorene	24		23	4.8	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Indeno[1,2,3-cd]pyrene	240		23	8.3	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
1-Methylnaphthalene	43	J	47	5.1	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
2-Methylnaphthalene	46	J	47	8.3	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Naphthalene	54		47	5.1	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Phenanthrene	220	J	9.3	4.6	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1
Pyrene	440	J	23	4.3	ug/Kg	☼	03/29/13 10:19	04/03/13 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*		*30 - 130*	*03/29/13 10:19*	*04/03/13 13:35*	*1*

Client Sample ID: CV0613AB-GS
Date Collected: 03/25/13 13:32
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-14
Matrix: Solid
Percent Solids: 82.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Acenaphthylene	76		49	6.1	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Anthracene	150	J*	10	5.2	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Benzo[a]anthracene	600		9.8	4.8	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Benzo[a]pyrene	510	J	13	6.4	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Benzo[b]fluoranthene	910	J	15	7.5	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Benzo[g,h,i]perylene	350		25	5.4	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Benzo[k]fluoranthene	490		9.8	4.4	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Chrysene	820	J	11	5.5	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Dibenz(a,h)anthracene	120		25	5.0	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Fluoranthene	1400		25	4.9	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Fluorene	35		25	5.0	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Indeno[1,2,3-cd]pyrene	330		25	8.7	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
1-Methylnaphthalene	150		49	5.4	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
2-Methylnaphthalene	220		49	8.7	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Naphthalene	150		49	5.4	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Phenanthrene	380		9.8	4.8	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1
Pyrene	1300	J	25	4.6	ug/Kg	☼	03/29/13 10:19	04/03/13 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*03/29/13 10:19*	*04/03/13 13:54*	*1*

* Flagging error, Sarah Choyke 04/07/2013.

Client Sample ID: CV0613AC-GS

Lab Sample ID: 680-88766-15

Date Collected: 03/25/13 13:34
Date Received: 03/28/13 09:37

Matrix: Solid
Percent Solids: 84.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Acenaphthylene	**110**	**J**	190	24	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Anthracene	**140**	**J** *	40	20	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Benzo[a]anthracene	**470**		39	19	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Benzo[a]pyrene	**550**	**J**	50	25	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Benzo[b]fluoranthene	**890**	**J**	59	29	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Benzo[g,h,i]perylene	**450**		96	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Benzo[k]fluoranthene	**390**		39	17	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Chrysene	**570**	**J**	43	22	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Dibenz(a,h)anthracene	**110**		96	20	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Fluoranthene	**770**		96	19	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Fluorene	**38**	**J**	96	20	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Indeno[1,2,3-cd]pyrene	**350**		96	34	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
1-Methylnaphthalene	**74**	**J**	190	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
2-Methylnaphthalene	**60**	**J**	190	34	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Naphthalene	**110**	**J**	190	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Phenanthrene	**360**		39	19	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4
Pyrene	**660**	**J**	96	18	ug/Kg	☼	03/29/13 10:19	04/03/13 14:12	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*03/29/13 10:19*	*04/03/13 14:12*	*4*

Client Sample ID: CV0610A-CS

Lab Sample ID: 680-88766-16

Date Collected: 03/25/13 14:40
Date Received: 03/28/13 09:37

Matrix: Solid
Percent Solids: 82.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Acenaphthylene	**83**	**J**	200	24	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Anthracene	**180**	**J** *	41	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Benzo[a]anthracene	**690**		39	19	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Benzo[a]pyrene	**570**	**J**	51	25	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Benzo[b]fluoranthene	**1000**	**J**	60	30	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Benzo[g,h,i]perylene	**490**		98	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Benzo[k]fluoranthene	**460**		39	18	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Chrysene	**710**	**J**	44	22	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Dibenz(a,h)anthracene	**150**		98	20	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Fluoranthene	**1000**		98	20	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Fluorene	**46**	**J**	98	20	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Indeno[1,2,3-cd]pyrene	**360**		98	35	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
1-Methylnaphthalene	**100**	**J**	200	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
2-Methylnaphthalene	**120**	**J**	200	35	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Naphthalene	**160**	**J**	200	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Phenanthrene	**550**		39	19	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4
Pyrene	**920**	**J**	98	18	ug/Kg	☼	03/29/13 10:19	04/03/13 14:30	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*03/29/13 10:19*	*04/03/13 14:30*	*4*

* Flagging error, Sarah Choyke 04/07/2013.

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88766-1
SDG: 68088766-1

Client Sample ID: CV0610B-CS
Date Collected: 03/25/13 14:42
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-17
Matrix: Solid
Percent Solids: 83.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Acenaphthylene	41	J	190	24	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Anthracene	120	J *	40	20	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Benzo[a]anthracene	490		38	19	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Benzo[a]pyrene	380	J	50	25	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Benzo[b]fluoranthene	780	J	58	29	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Benzo[g,h,i]perylene	420		96	21	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Benzo[k]fluoranthene	380		38	17	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Chrysene	560	J	43	22	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Dibenz(a,h)anthracene	120		96	20	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Fluoranthene	670		96	19	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Fluorene	41	J	96	20	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Indeno[1,2,3-cd]pyrene	350		96	34	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
1-Methylnaphthalene	92	J	190	21	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
2-Methylnaphthalene	120	J	190	34	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Naphthalene	150	J	190	21	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Phenanthrene	370		38	19	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4
Pyrene	600	J	96	18	ug/Kg	☼	04/02/13 11:33	04/03/13 18:00	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*115*		*30 - 130*	*04/02/13 11:33*	*04/03/13 18:00*	*4*

Client Sample ID: CV0610AB-GS
Date Collected: 03/25/13 14:39
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-18
Matrix: Solid
Percent Solids: 78.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Acenaphthylene	74	J	200	25	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Anthracene	110	J *	43	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Benzo[a]anthracene	450		41	20	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Benzo[a]pyrene	440	J	53	26	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Benzo[b]fluoranthene	750	J	62	31	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Benzo[g,h,i]perylene	370		100	22	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Benzo[k]fluoranthene	310		41	18	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Chrysene	550	J	46	23	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Dibenz(a,h)anthracene	130		100	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Fluoranthene	730		100	20	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Fluorene	43	J	100	21	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Indeno[1,2,3-cd]pyrene	280		100	36	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
1-Methylnaphthalene	72	J	200	22	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
2-Methylnaphthalene	96	J	200	36	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Naphthalene	150	J	200	22	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Phenanthrene	380		41	20	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4
Pyrene	650	J	100	19	ug/Kg	☼	03/29/13 10:19	04/03/13 14:49	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*03/29/13 10:19*	*04/03/13 14:49*	*4*

* Flagging error, Sarah Choyke 04/07/2013.

Client Sample ID: CV0506A-CS
Date Collected: 03/25/13 15:06
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-19
Matrix: Solid
Percent Solids: 75.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Acenaphthylene	34	J	210	27	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Anthracene	51	J *	45	22	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Benzo[a]anthracene	280		43	21	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Benzo[a]pyrene	250	J	56	28	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Benzo[b]fluoranthene	460	J	65	33	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Benzo[g,h,i]perylene	250		110	24	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Benzo[k]fluoranthene	190		43	19	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Chrysene	360	J	48	24	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Dibenz(a,h)anthracene	100	J	110	22	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Fluoranthene	310		110	21	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Fluorene	26	J	110	22	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Indeno[1,2,3-cd]pyrene	240		110	38	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
1-Methylnaphthalene	140	J	210	24	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
2-Methylnaphthalene	180	J	210	38	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Naphthalene	190	J	210	24	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Phenanthrene	240		43	21	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4
Pyrene	290	J	110	20	ug/Kg	☼	03/29/13 10:19	04/03/13 15:07	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*30 - 130*	*03/29/13 10:19*	*04/03/13 15:07*	*4*

Client Sample ID: CV0506B-CS
Date Collected: 03/25/13 15:15
Date Received: 03/28/13 09:37

Lab Sample ID: 680-88766-20
Matrix: Solid
Percent Solids: 62.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Acenaphthylene	10	J	63	7.8	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Anthracene	10	J **	13	6.6	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Benzo[a]anthracene	120		13	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Benzo[a]pyrene	100	J	16	8.1	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Benzo[b]fluoranthene	180	J	19	9.5	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Benzo[g,h,i]perylene	83		31	6.9	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Benzo[k]fluoranthene	73		13	5.6	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Chrysene	100	J	14	7.0	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Dibenz(a,h)anthracene	33		31	6.4	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Fluoranthene	110		31	6.3	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Fluorene	9.8	J	31	6.4	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Indeno[1,2,3-cd]pyrene	67		31	11	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
1-Methylnaphthalene	37	J	63	6.9	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
2-Methylnaphthalene	57	J	63	11	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Naphthalene	63		63	6.9	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Phenanthrene	64		13	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1
Pyrene	96	J	31	5.8	ug/Kg	☼	04/02/13 11:33	04/03/13 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/02/13 11:33*	*04/03/13 18:19*	*1*

* Flagging error, Sarah Choyke 04/07/2013.
** Flagging error. Laboratory flag still applies. Sarah Choyke 04/07/2013.